

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101220\
 Data File : VX018918.D
 Acq On : 12 Oct 2020 20:54
 Operator : JC/SP
 Sample : L4276-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FIELD-BLANK

Quant Time: Oct 13 04:10:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 06:09:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	241195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	389832	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	383511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	195042	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	189755	53.34	ug/l	0.00
Spiked Amount			Recovery	=	106.68%	
35) Dibromofluoromethane	5.46	113	145384	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
50) Toluene-d8	8.70	98	477783	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	11.12	95	174154	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	

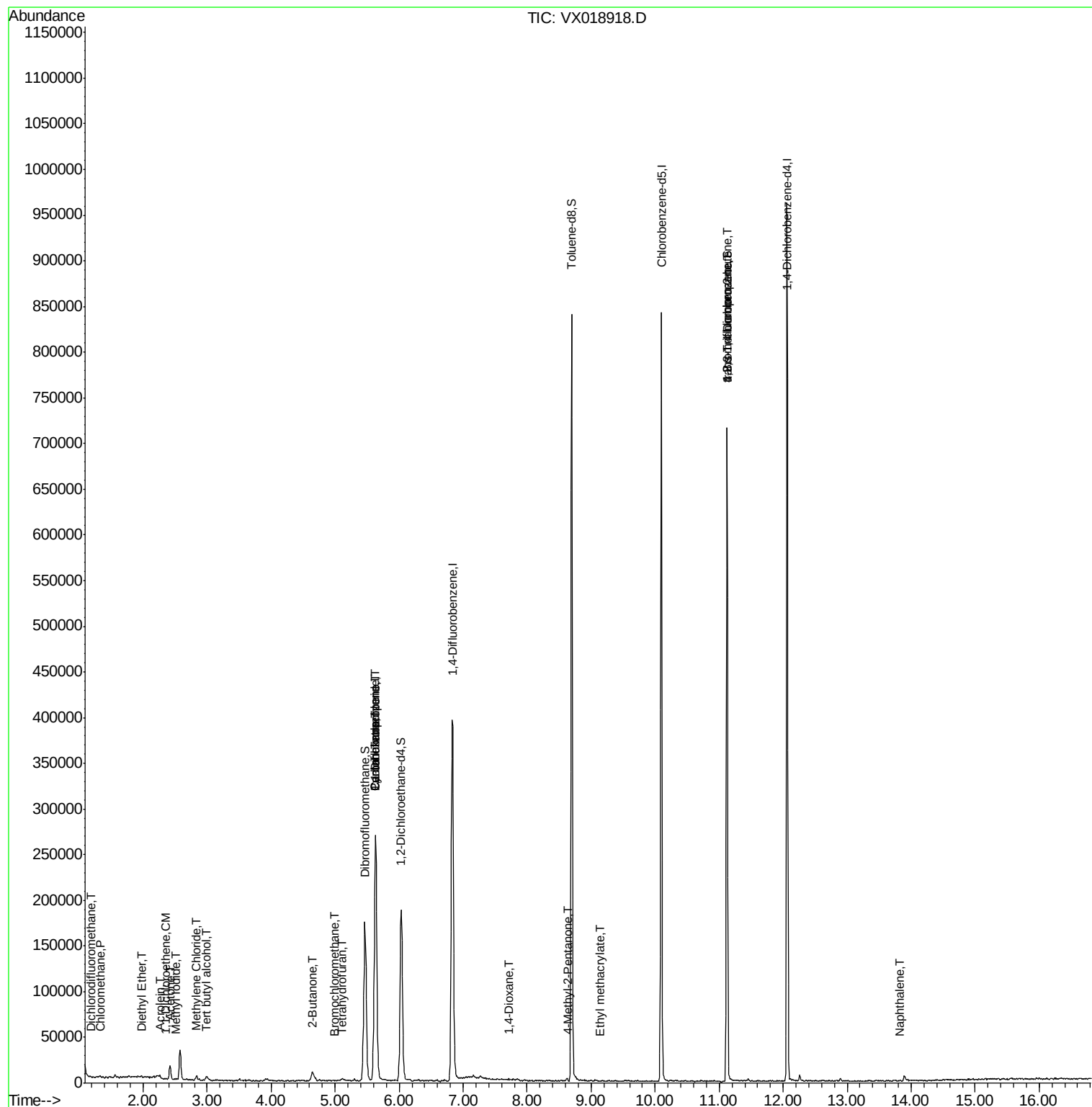
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	22	1.626	ug/l #	43
3) Chloromethane	1.32	50	1332	0.589	ug/l #	72
8) Diethyl Ether	1.98	74	64	1.075	ug/l	62
10) Methyl Iodide	2.51	142	27	4.001	ug/l #	34
11) Tert butyl alcohol	3.00	59	2809	5.014	ug/l #	84
12) 1,1-Dichloroethene	2.35	96	64	0.733	ug/l #	1
13) Acrolein	2.27	56	345	0.740	ug/l	95
16) Acetone	2.42	43	16467	7.228	ug/l	94
20) Methylene Chloride	2.83	84	2170	1.350	ug/l #	82
25) 2-Butanone	4.64	43	3857	2.002	ug/l #	86
28) Bromochloromethane	4.99	49	20	1.531	ug/l #	1
29) Tetrahydrofuran	5.10	42	1452	1.405	ug/l #	79
31) Cyclohexane	5.62	56	5567	1.675	ug/l #	46
36) 1,1-Dichloropropene	5.63	75	19318	4.713	ug/l #	48
38) Carbon Tetrachloride	5.63	117	25852	5.089	ug/l #	18
49) 1,4-Dioxane	7.70	88	21	0.449	ug/l #	1
51) 4-Methyl-2-Pentanone	8.63	43	1496	0.390	ug/l	94
56) Ethyl methacrylate	9.13	69	38	2.943	ug/l #	1
64) Tetrachloroethene	9.09	164	21	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.12	75	91400	21.749	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	91400	61.635	ug/l #	7
95) Naphthalene	13.82	128	123	3.085	ug/l #	76

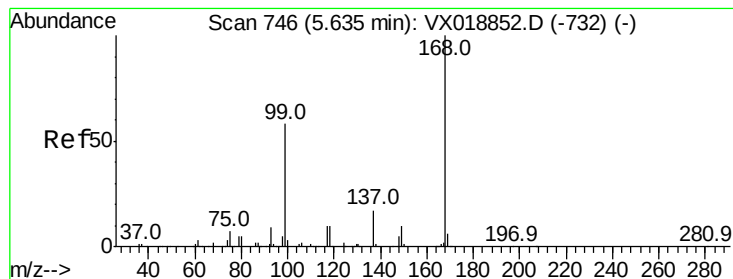
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 10 06:09:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampleId :

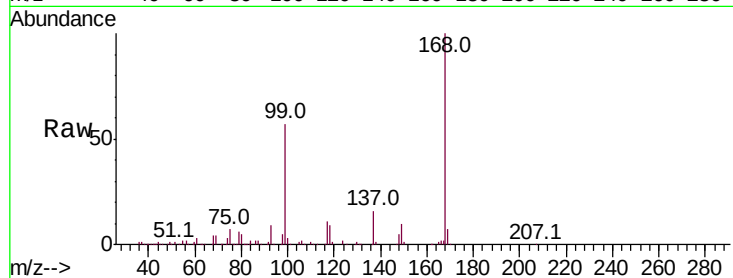
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Tot Ion:168 Resp: 241195

Ion Ratio Lower Upper

168 100

99 57.4 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

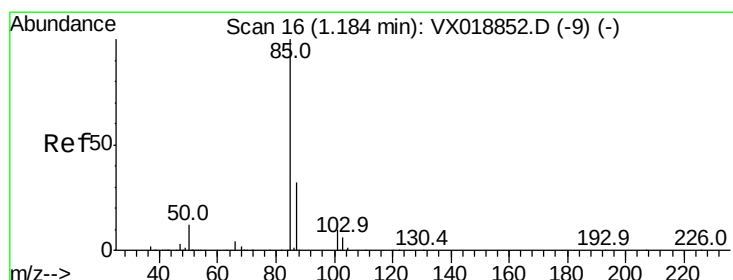
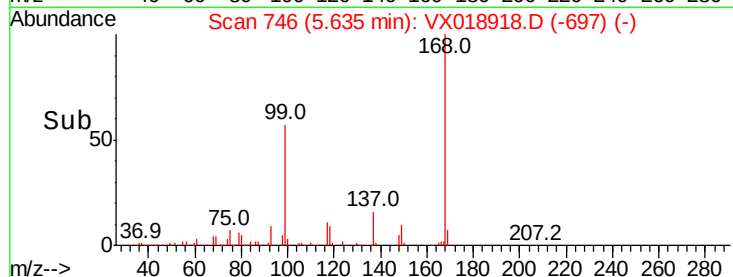
60000

40000

20000

0

Time--> 5.50 5.60 5.70



#2

Dichlorodifluoromethane

Concen: 1.626 ug/l

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX018918.D

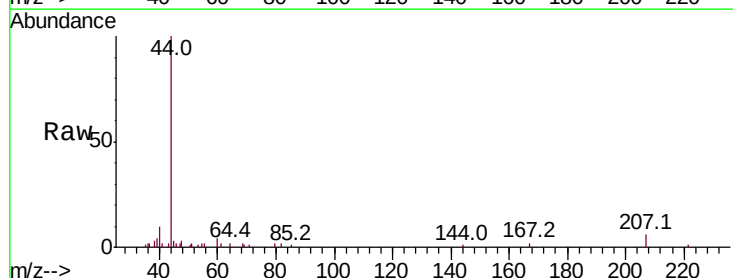
Acq: 12 Oct 2020 20:54

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

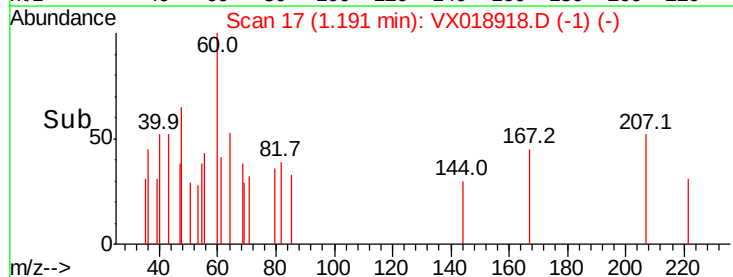
60

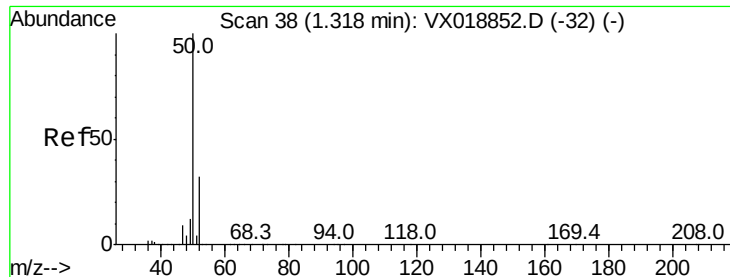
40

20

0

Time--> 1.17 1.18 1.19 1.20 1.21





#3

Chloromethane

Concen: 0.589 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.00 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampled :

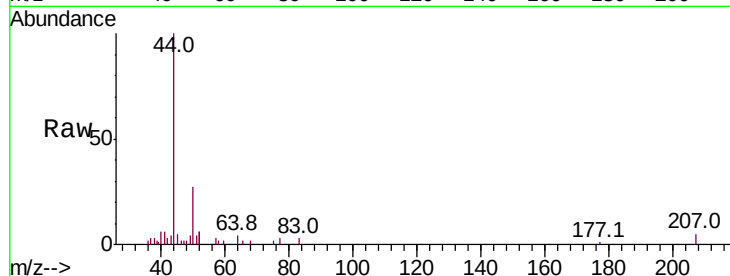
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Tot Ion: 50 Resp: 1332

Ion Ratio Lower Upper

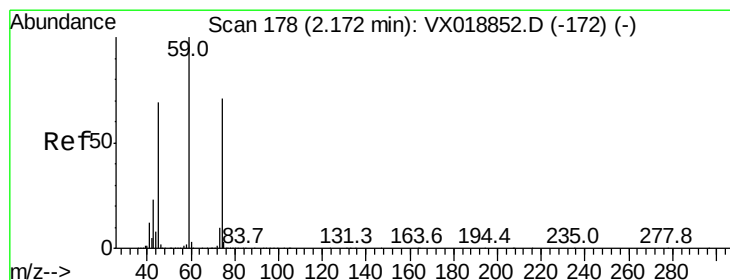
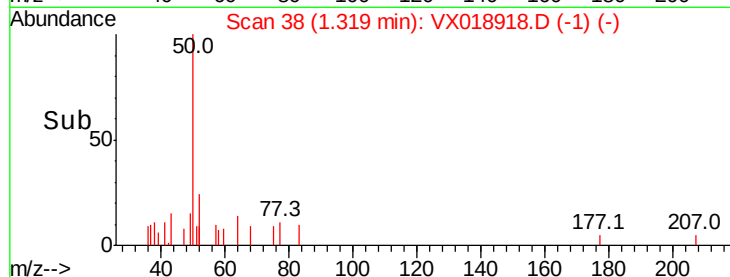
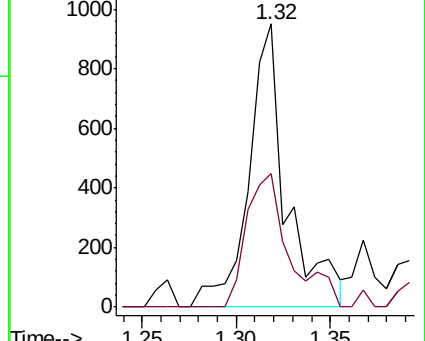
50 100

52 47.3 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#8

Diethyl Ether

Concen: 1.075 ug/l

RT: 1.98 min Scan# 146

Delta R.T. -0.19 min

Lab File: VX018918.D

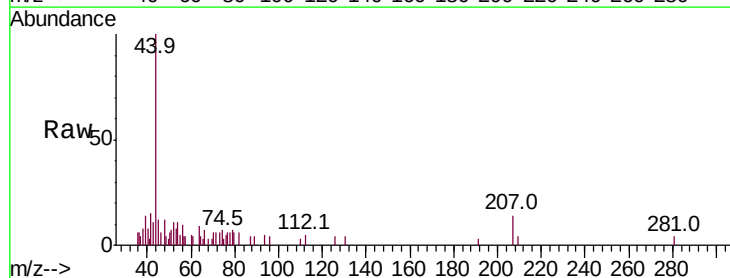
Acq: 12 Oct 2020 20:54

Tgt Ion: 74 Resp: 64

Ion Ratio Lower Upper

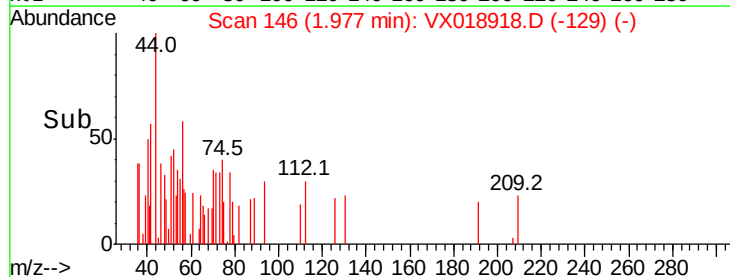
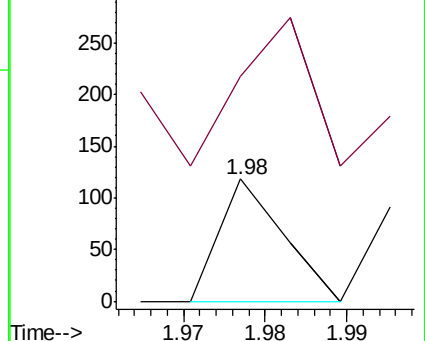
74 100

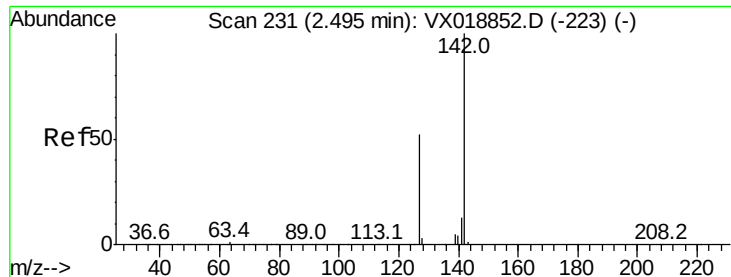
45 131.3 47.0 141.2



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 4.001 ug/l

RT: 2.51 min Scan# 234

Delta R.T. 0.02 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampleId :

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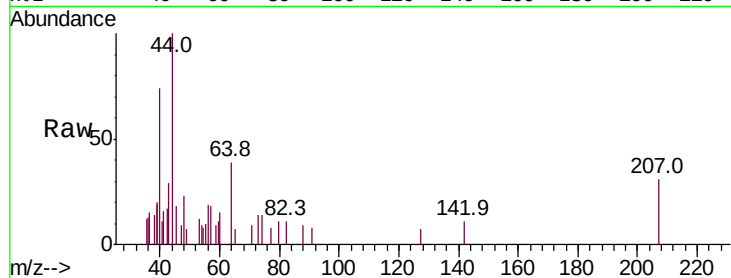
Tot Ion:142 Resp: 27

Ion Ratio Lower Upper

142 100

127 0.0 42.0 63.0#

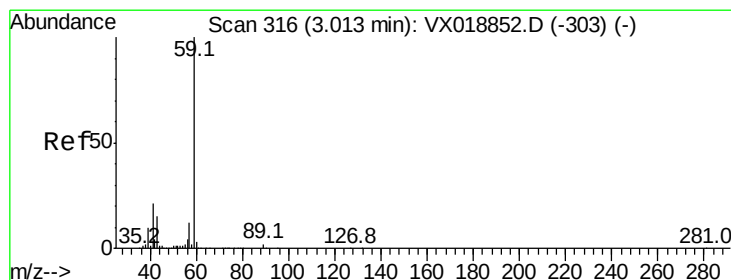
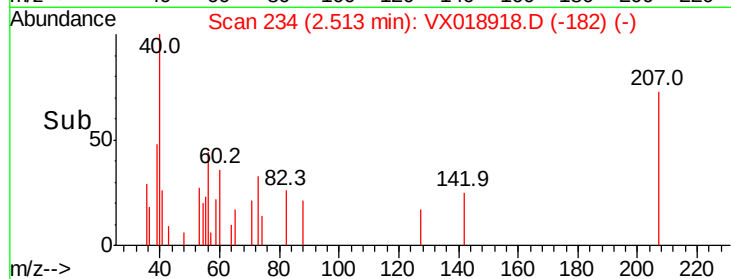
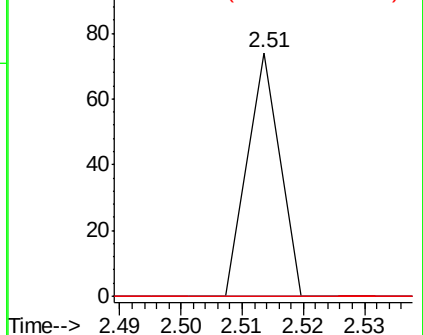
141 0.0 11.8 17.6#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 5.014 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX018918.D

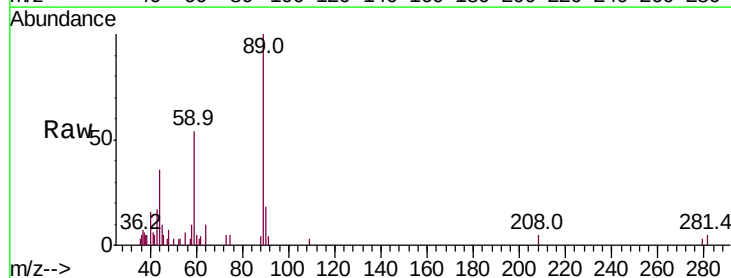
Acq: 12 Oct 2020 20:54

Tgt Ion: 59 Resp: 2809

Ion Ratio Lower Upper

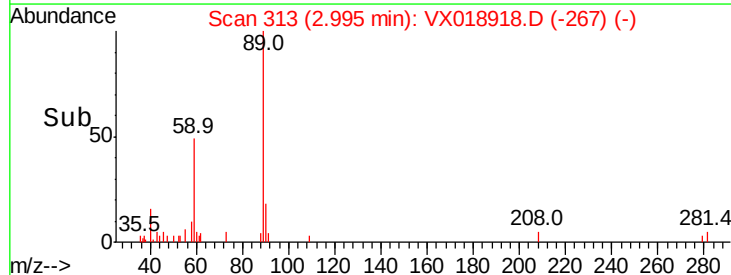
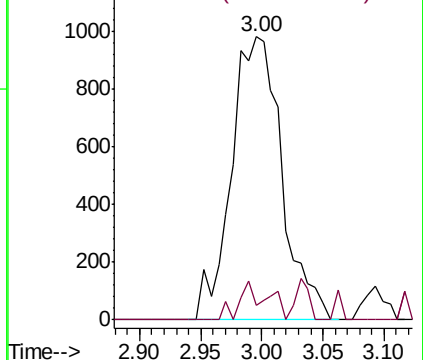
59 100

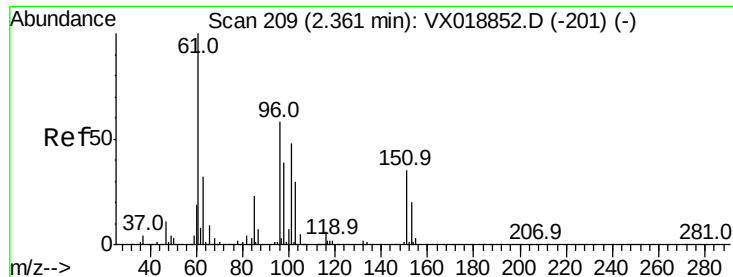
57 5.2 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.733 ug/l

RT: 2.35 min Scan# 208

Delta R.T. -0.01 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampled :

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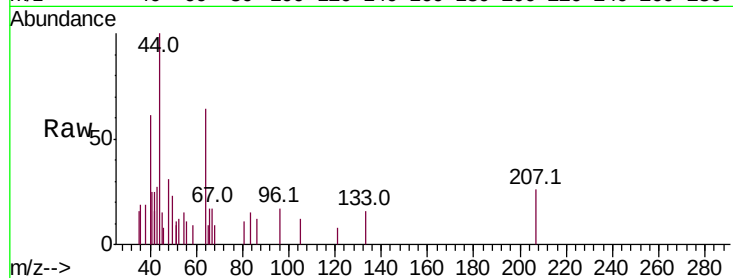
Tot Ion: 96 Resp: 64

Ion Ratio Lower Upper

96 100

61 0.0 137.0 205.6#

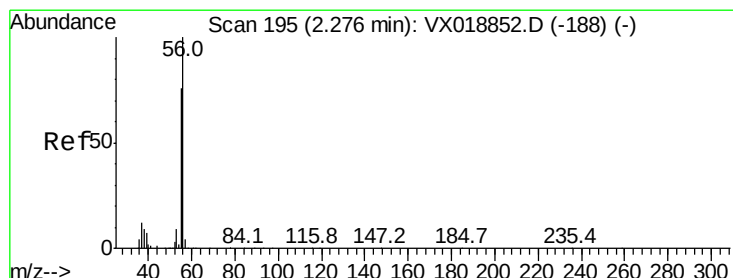
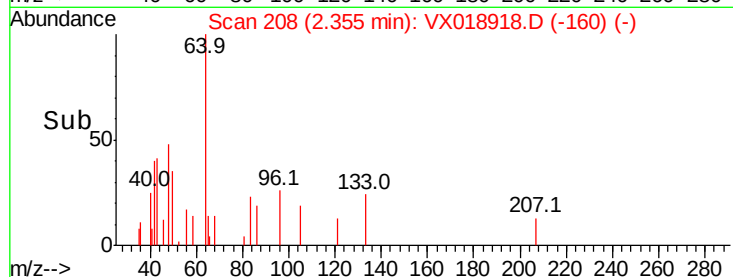
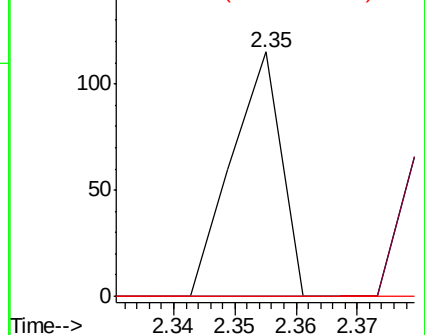
98 0.0 53.9 80.9#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.740 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX018918.D

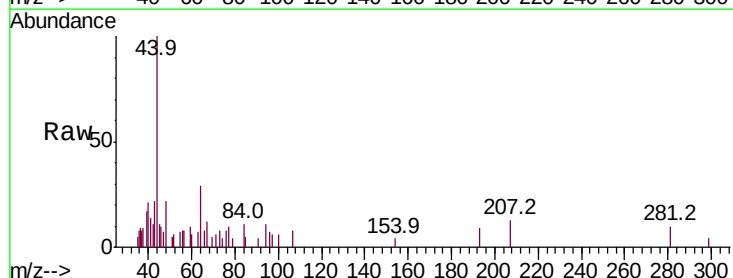
Acq: 12 Oct 2020 20:54

Tgt Ion: 56 Resp: 345

Ion Ratio Lower Upper

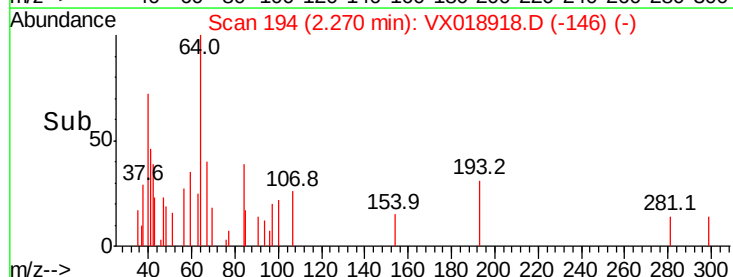
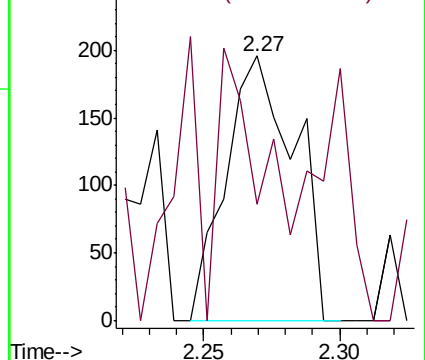
56 100

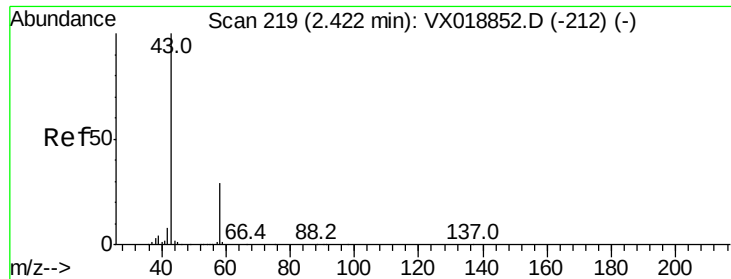
55 68.7 58.6 87.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 7.228 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampled :

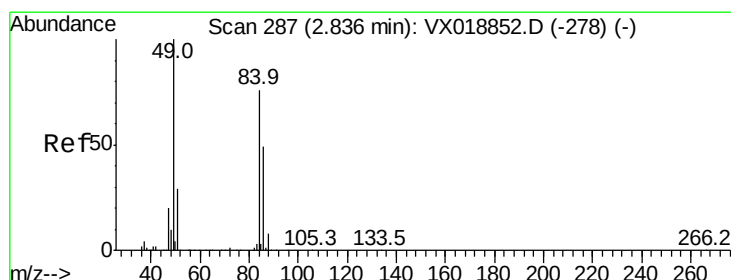
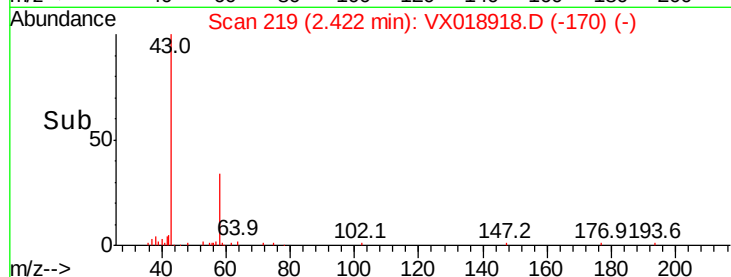
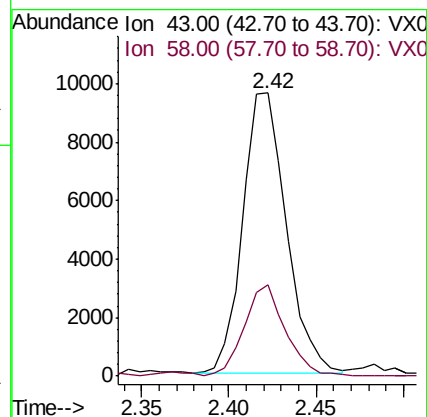
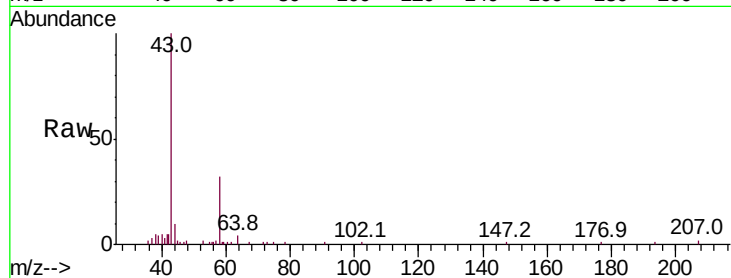
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Tot Ion: 43 Resp: 16467

Ion Ratio Lower Upper

43 100

58 32.0 23.0 34.4



#20

Methylene Chloride

Concen: 1.350 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Tgt Ion: 84 Resp: 2170

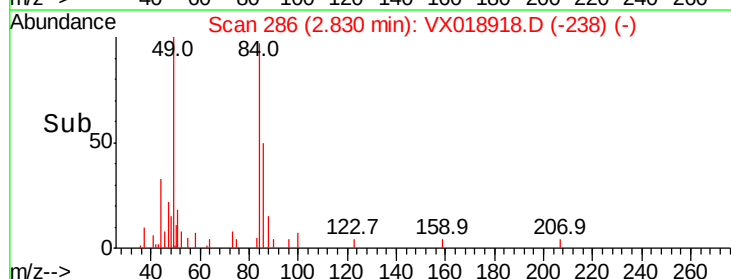
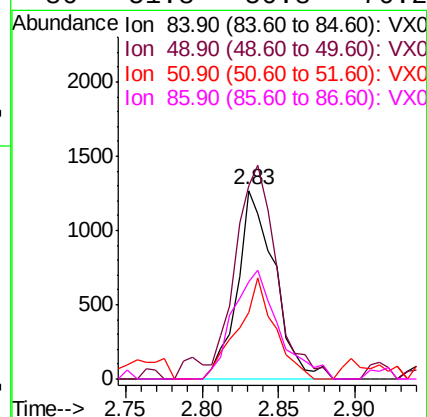
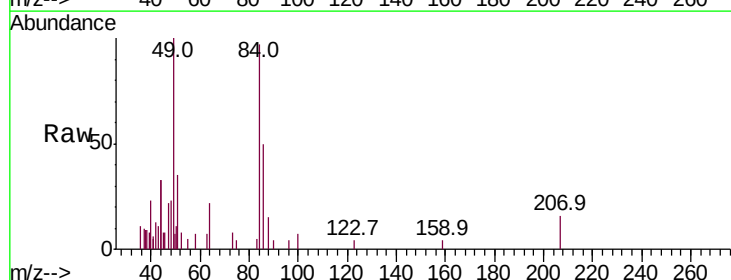
Ion Ratio Lower Upper

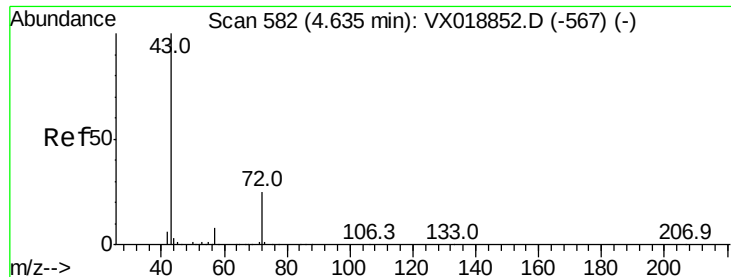
84 100

49 102.7 104.8 157.2#

51 35.6 30.6 46.0

86 51.8 50.8 76.2





#25

2-Butanone

Concen: 2.002 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampled :

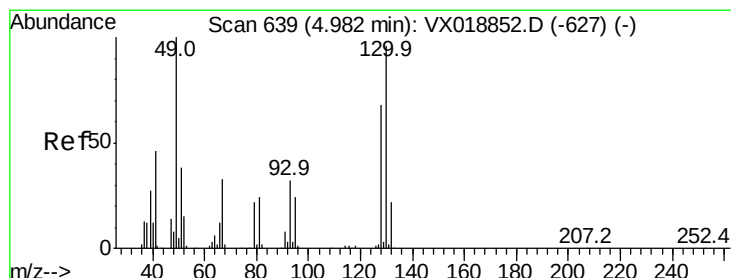
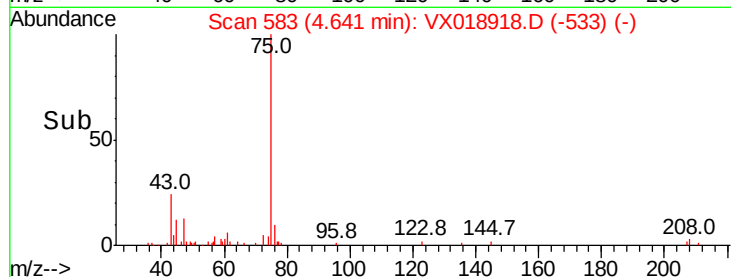
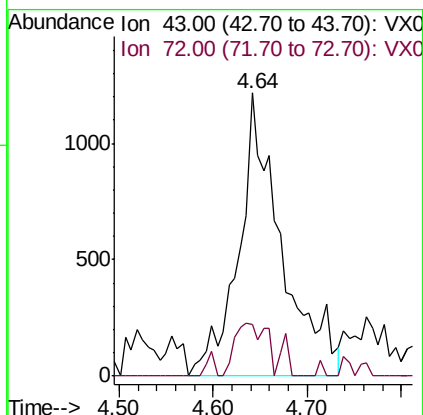
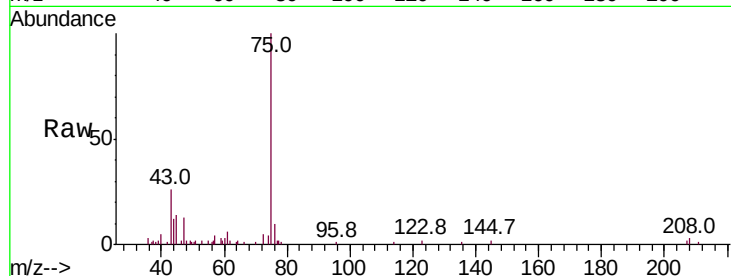
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Tot Ion: 43 Resp: 3857

Ion Ratio Lower Upper

43 100

72 18.2 20.2 30.4#



#28

Bromochloromethane

Concen: 1.531 ug/l

RT: 4.99 min Scan# 641

Delta R.T. 0.01 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

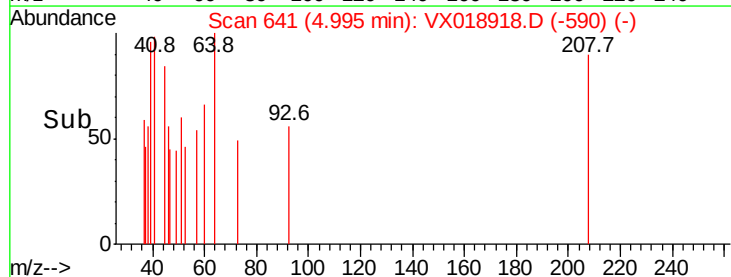
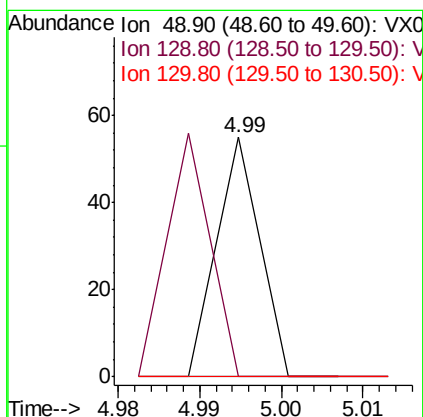
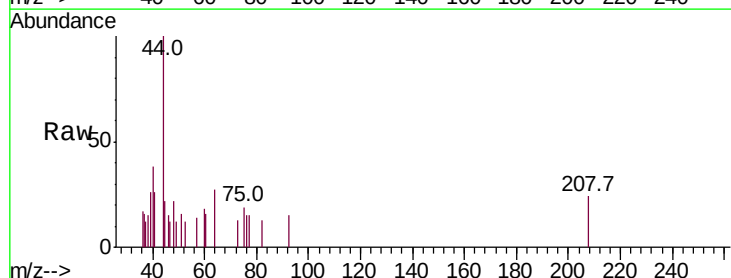
Tgt Ion: 49 Resp: 20

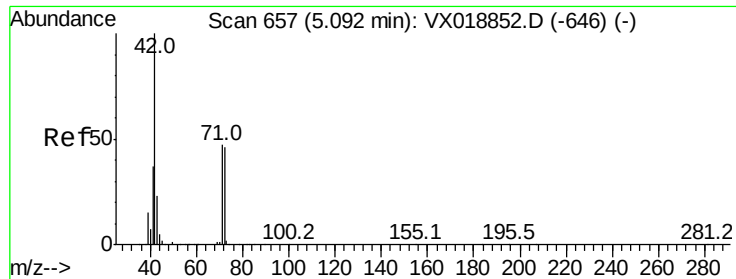
Ion Ratio Lower Upper

49 100

129 100.0 0.0 5.4#

130 0.0 71.2 106.8#





#29

Tetrahydrofuran

Concen: 1.405 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampled :

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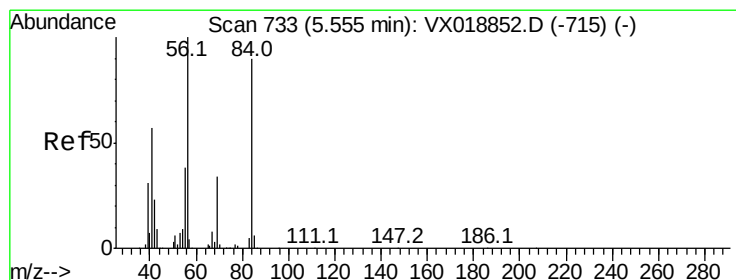
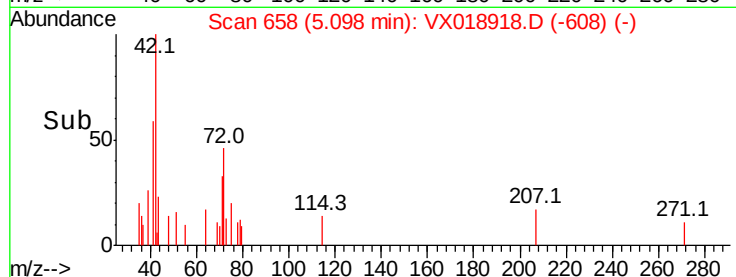
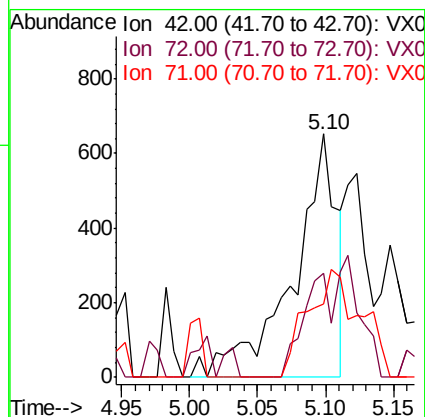
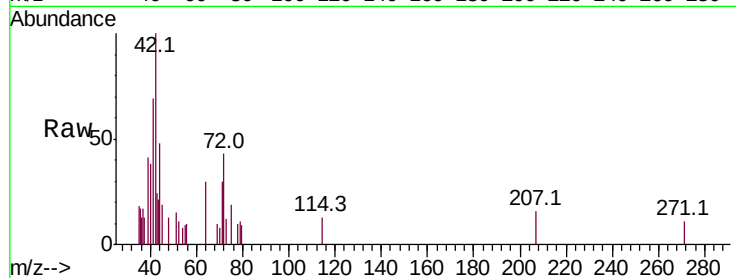
Tot Ion: 42 Resp: 1452

Ion Ratio Lower Upper

42 100

72 26.9 36.4 54.6#

71 52.8 35.2 52.8#



#31

Cyclohexane

Concen: 1.675 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

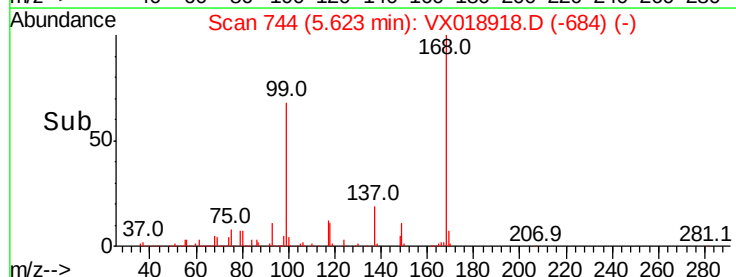
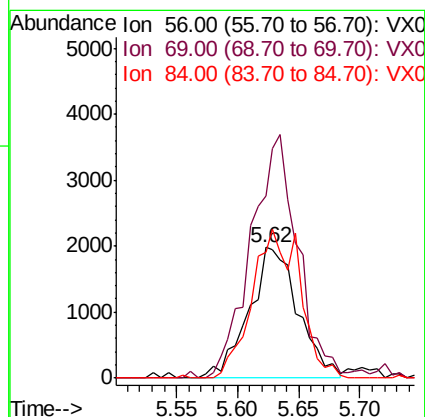
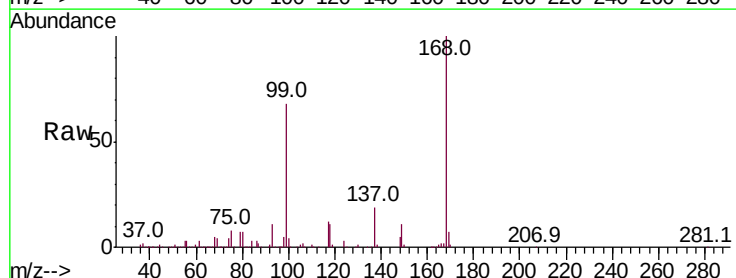
Tgt Ion: 56 Resp: 5567

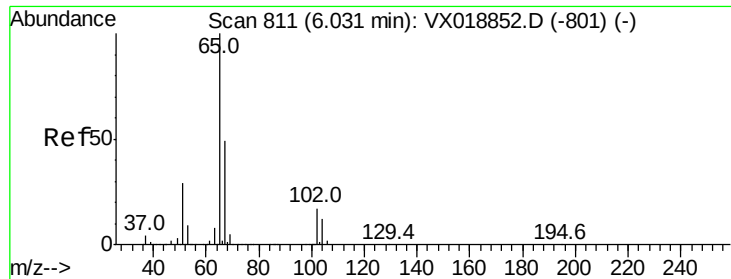
Ion Ratio Lower Upper

56 100

69 135.6 27.1 40.7#

84 96.2 71.7 107.5

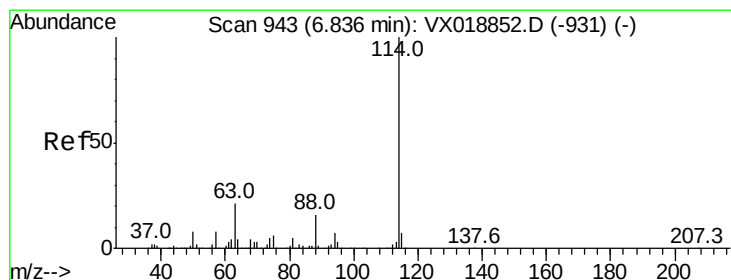
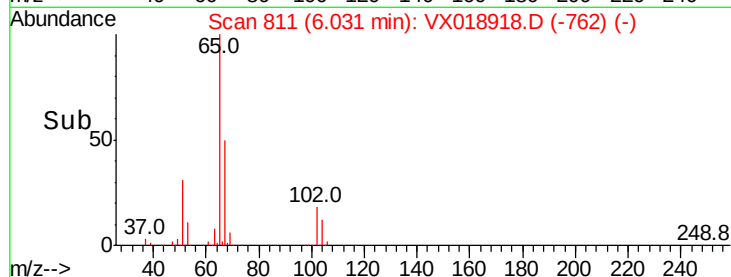
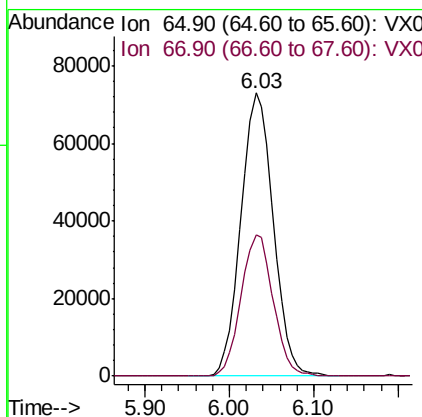
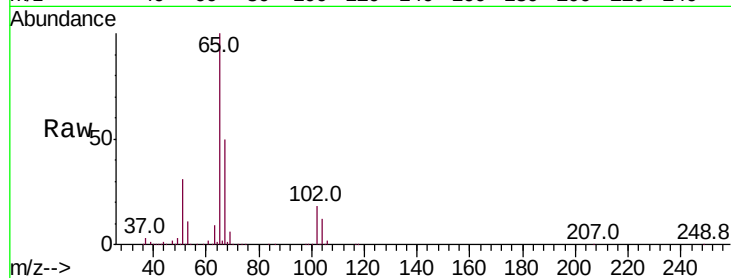




#33
 1,2-Dichloroethane-d4
 Concen: 53.341 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX018918.D
 Acq: 12 Oct 2020 20:54

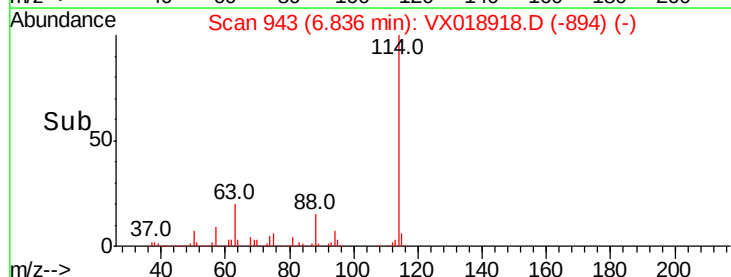
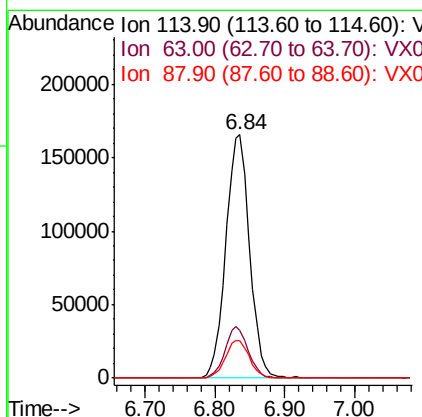
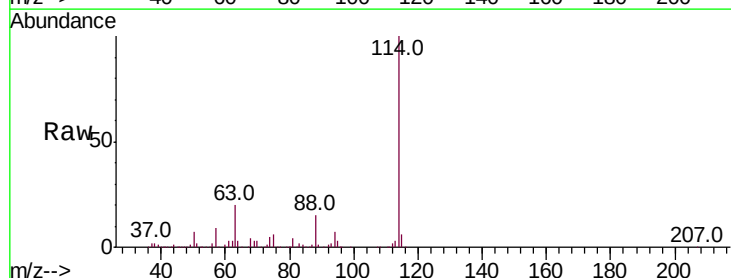
Instrument :
 MSVOA_X
 ClientSampleId :
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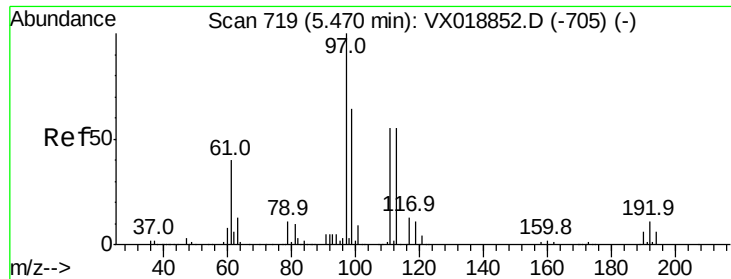
Tot Ion: 65 Resp: 189755
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 97.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.00 min
 Lab File: VX018918.D
 Acq: 12 Oct 2020 20:54

Tgt Ion: 114 Resp: 389832
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 42.4
 88 15.2 0.0 32.6

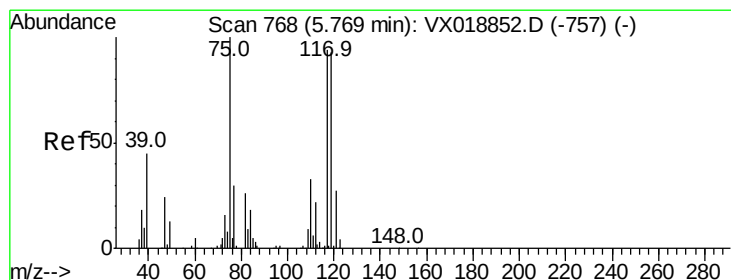
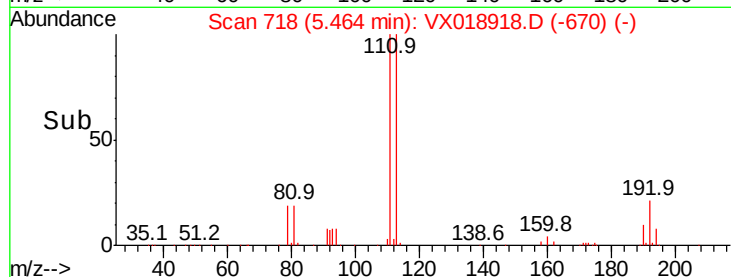
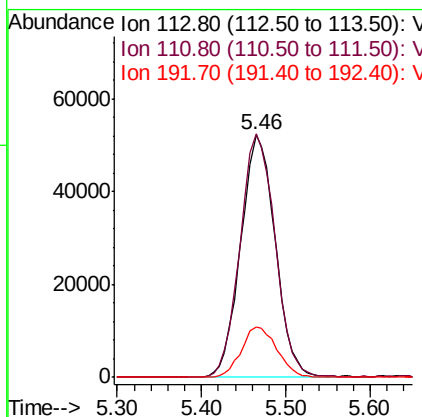
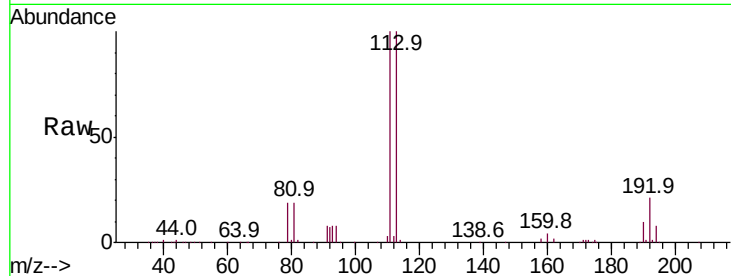




#35
 Dibromofluoromethane
 Concen: 52.331 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX018918.D
 Acq: 12 Oct 2020 20:54

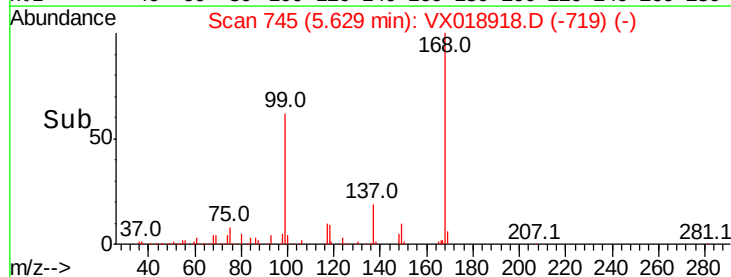
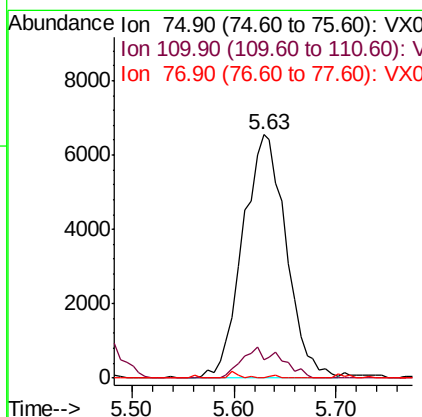
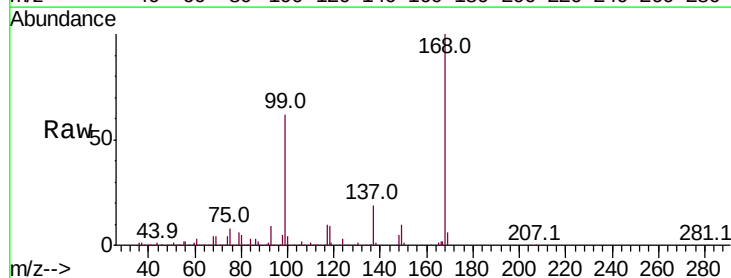
Instrument :
 MSVOA_X
 ClientSampleId :
 FIELD-BLANK

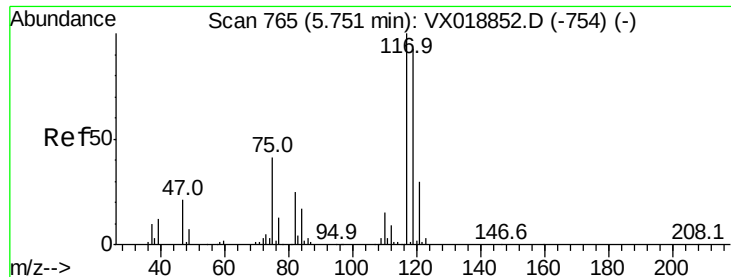
Tot Ion:113 Resp: 145384
 Ion Ratio Lower Upper
 113 100
 111 101.8 80.1 120.1
 192 21.4 16.0 24.0



#36
 1,1-Dichloropropene
 Concen: 4.713 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018918.D
 Acq: 12 Oct 2020 20:54

Tgt Ion: 75 Resp: 19318
 Ion Ratio Lower Upper
 75 100
 110 7.4 17.8 53.5#
 77 0.2 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 5.089 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampleId :

FIELD-BLANK

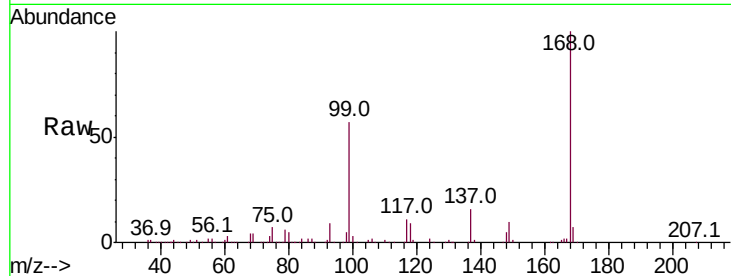
Tot Ion:117 Resp: 25852

Ion Ratio Lower Upper

117 100

119 6.1 73.9 110.9#

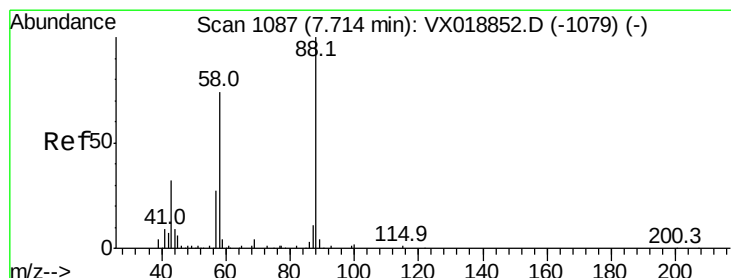
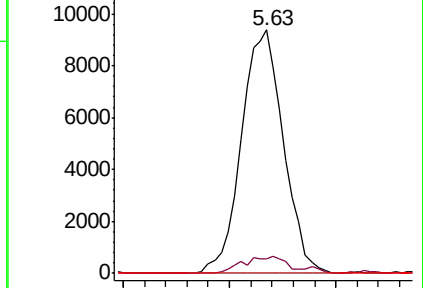
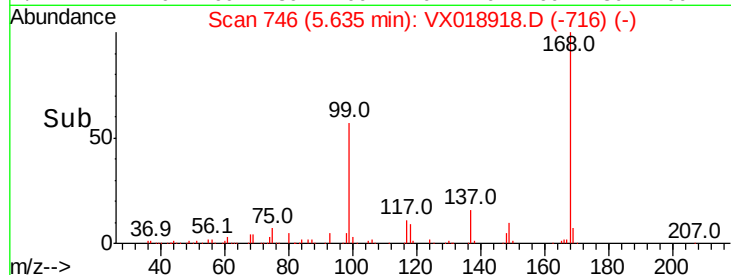
121 0.0 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.449 ug/l

RT: 7.70 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

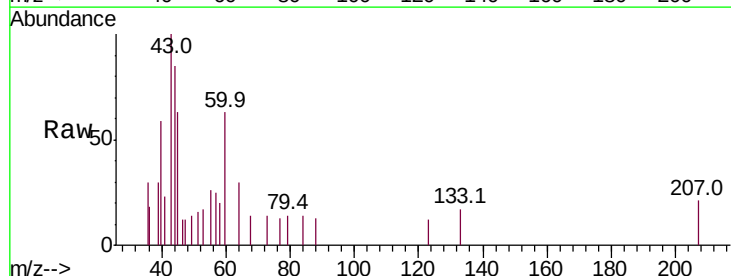
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 895.2 31.0 46.6#

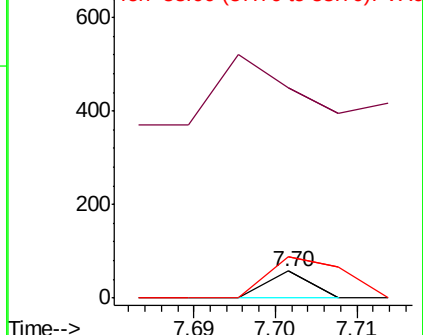
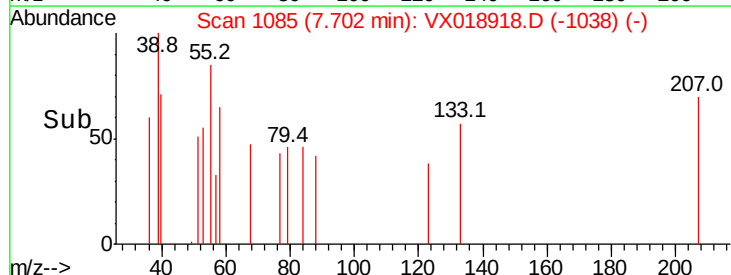
58 266.7 59.3 88.9#

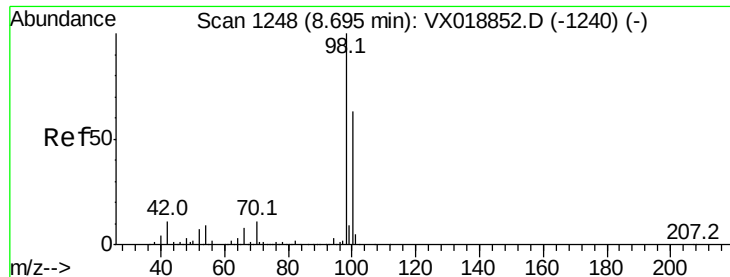


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

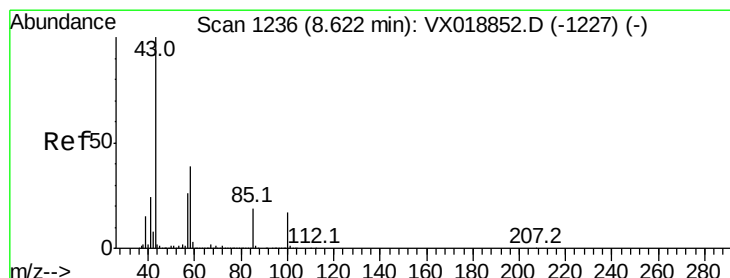
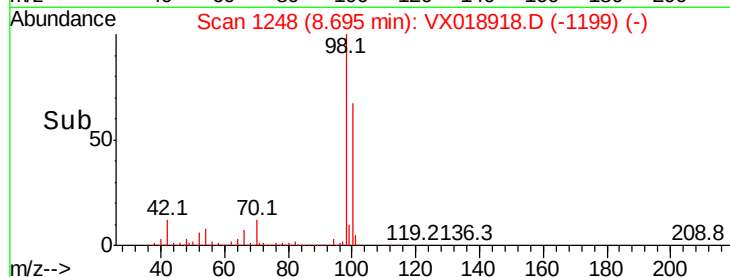
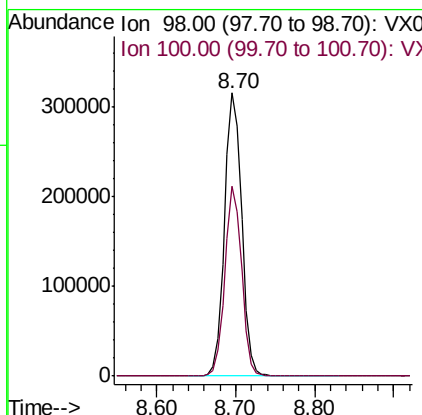
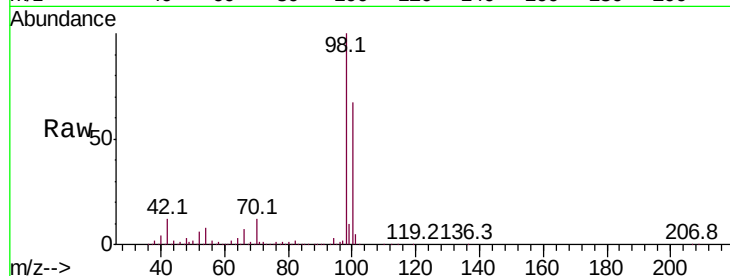




#50
Toluene-d8
Concen: 49.579 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018918.D
Acq: 12 Oct 2020 20:54

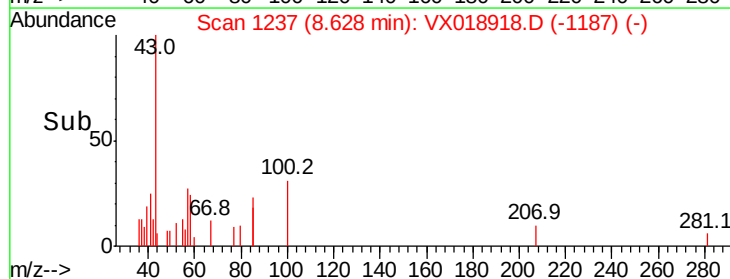
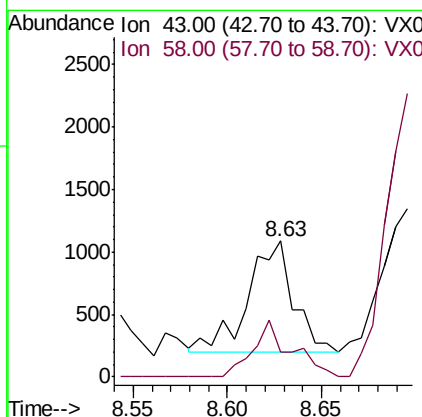
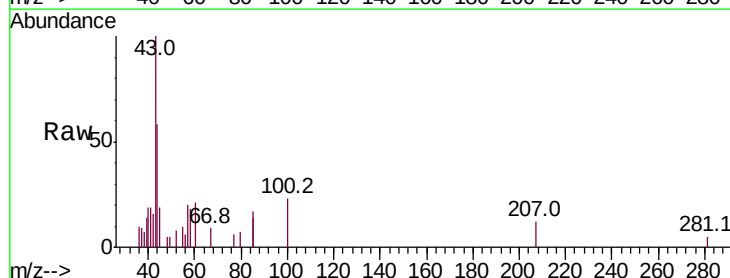
Instrument :
MSVOA_X
ClientSampled :
FIELD-BLANK

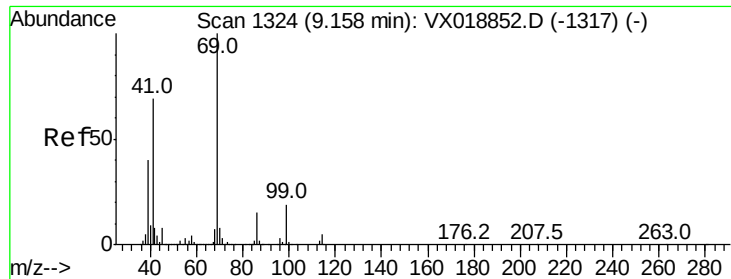
Tot Ion: 98 Resp: 477783
Ion Ratio Lower Upper
98 100
100 65.4 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 0.390 ug/l
RT: 8.63 min Scan# 1237
Delta R.T. 0.01 min
Lab File: VX018918.D
Acq: 12 Oct 2020 20:54

Tgt Ion: 43 Resp: 1496
Ion Ratio Lower Upper
43 100
58 42.2 30.9 46.3

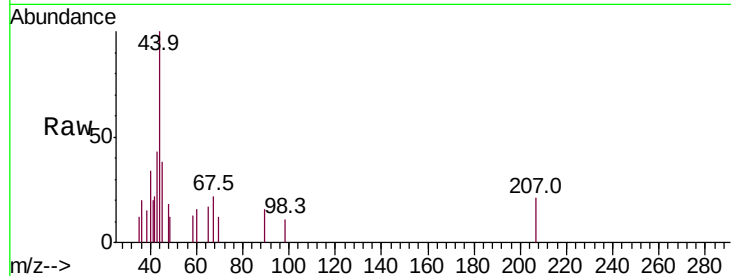




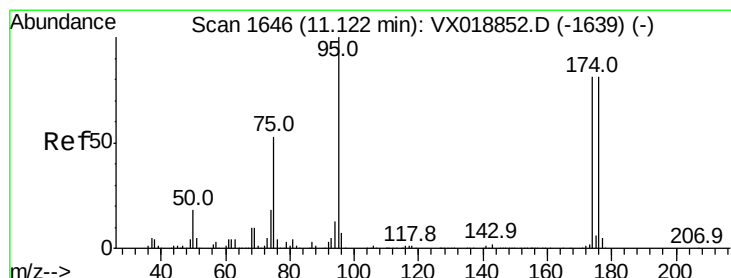
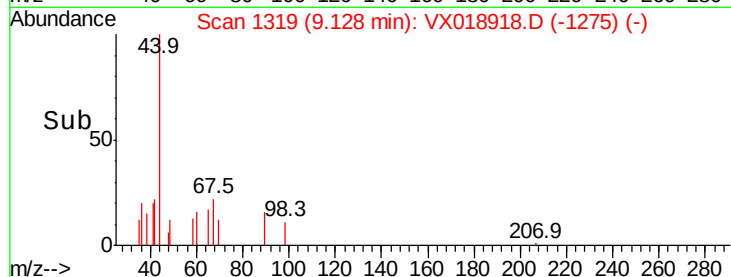
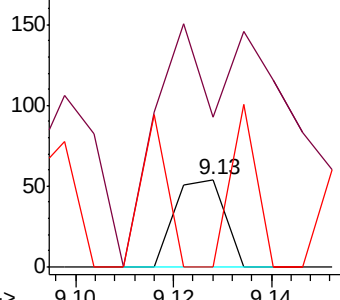
#56
Ethyl methacrylate
Concen: 2.943 ug/l
RT: 9.13 min Scan# 1319
Delta R.T. -0.03 min
Lab File: VX018918.D
Acq: 12 Oct 2020 20:54

Instrument :
MSVOA_X
ClientSampleId :
FIELD-BLANK

Tot Ion: 69 Resp: 38
Ion Ratio Lower Upper
69 100
41 326.3 54.6 81.8#
39 97.4 31.5 47.3#

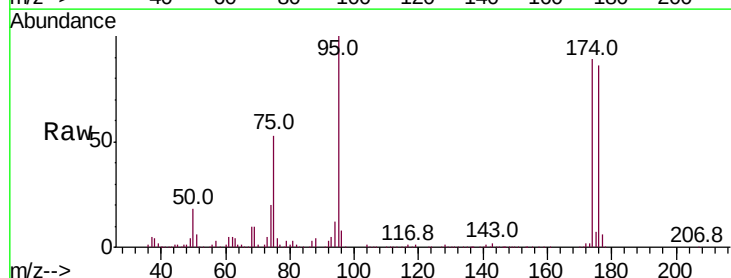


Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

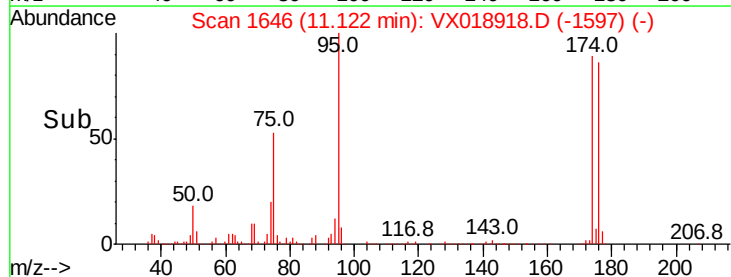
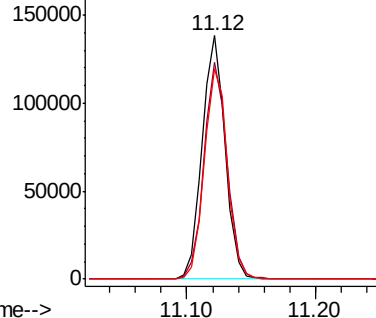


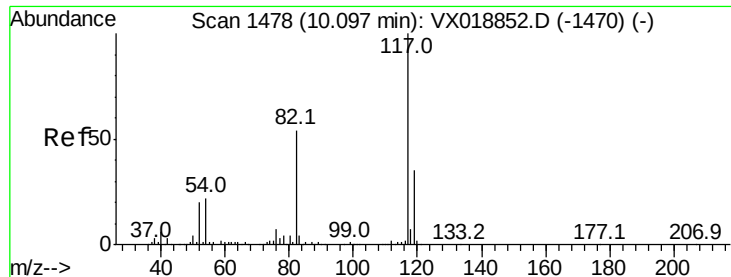
#62
4-Bromofluorobenzene
Concen: 45.343 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018918.D
Acq: 12 Oct 2020 20:54

Tgt Ion: 95 Resp: 174154
Ion Ratio Lower Upper
95 100
174 89.2 0.0 160.0
176 86.7 0.0 161.2



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampleId :

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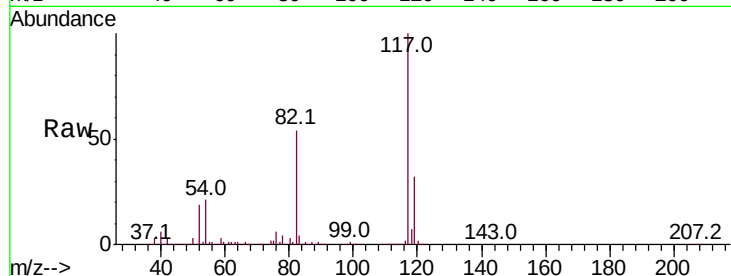
Tot Ion:117 Resp: 383511

Ion Ratio Lower Upper

117 100

82 53.7 43.4 65.2

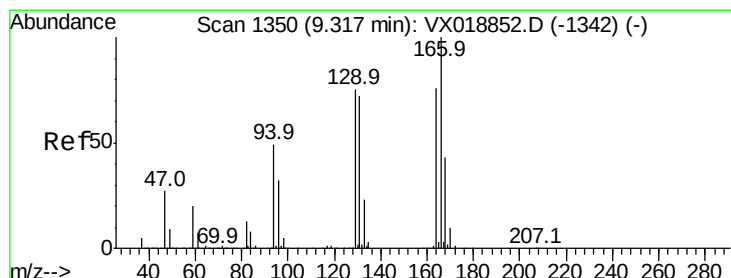
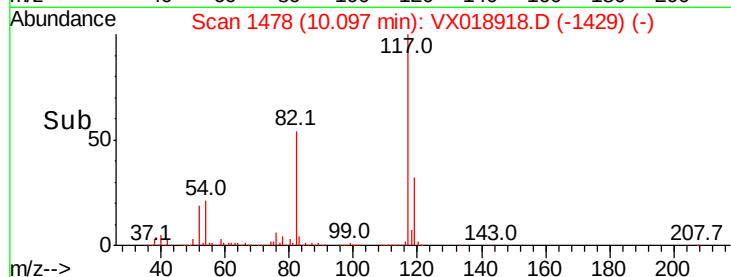
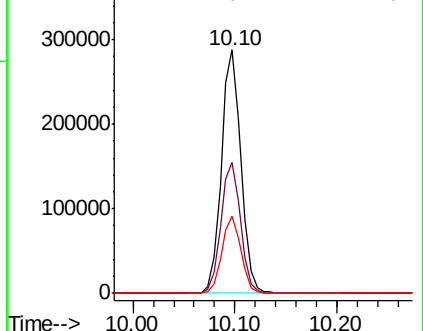
119 31.8 28.3 42.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: Below Cal

RT: 9.09 min Scan# 1312

Delta R.T. -0.23 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Tgt Ion:164 Resp: 21

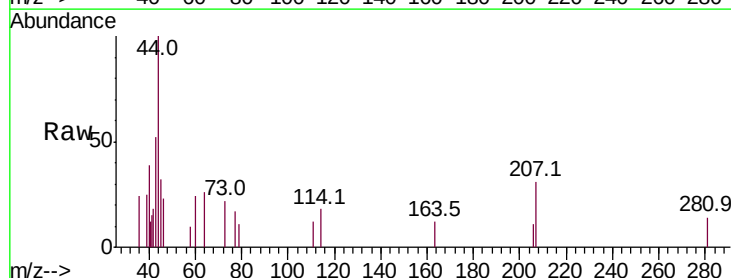
Ion Ratio Lower Upper

164 100

166 0.0 105.4 158.0#

129 0.0 79.0 118.6#

131 0.0 75.7 113.5#

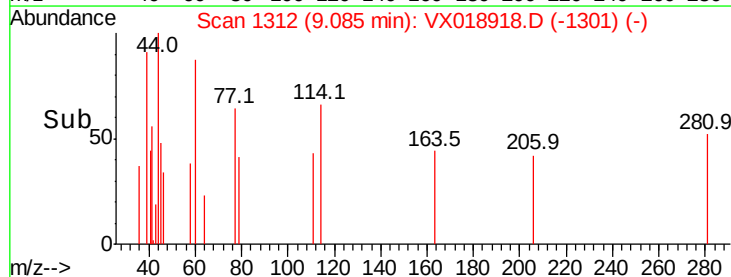
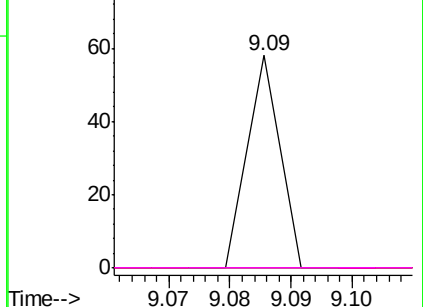


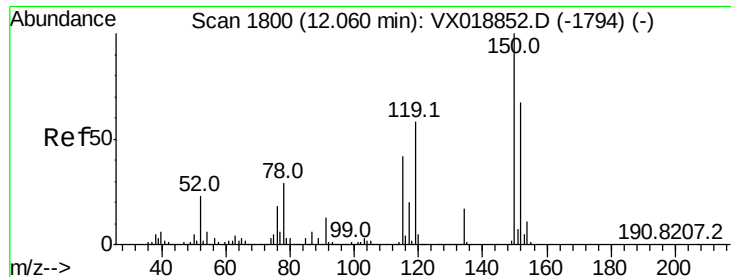
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampleId :

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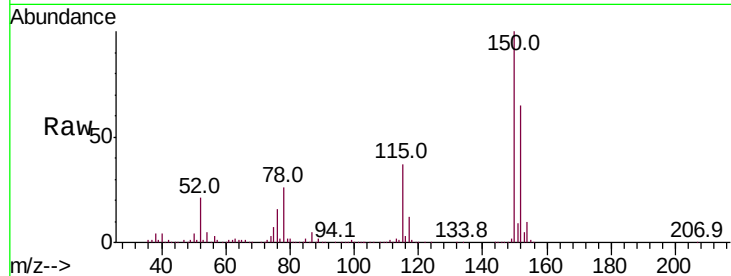
Tot Ion:152 Resp: 195042

Ion Ratio Lower Upper

152 100

115 56.4 41.8 125.4

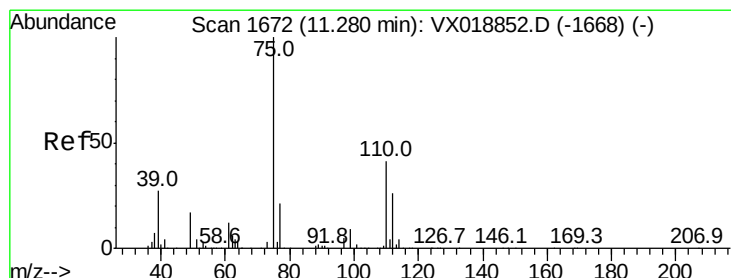
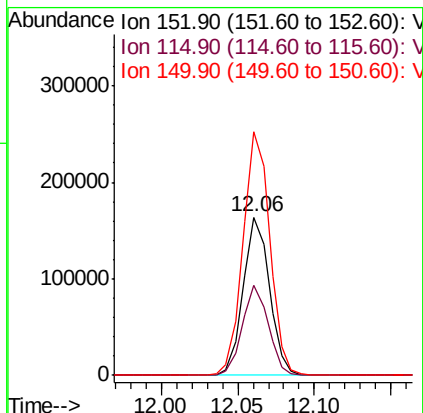
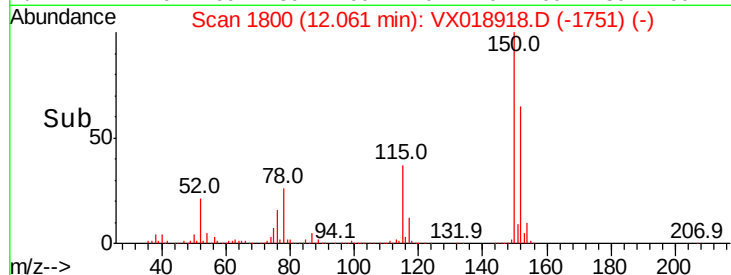
150 157.4 0.0 347.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.749 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018918.D

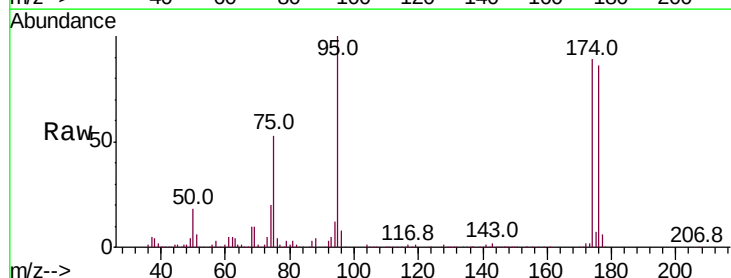
Acq: 12 Oct 2020 20:54

Tgt Ion: 75 Resp: 91400

Ion Ratio Lower Upper

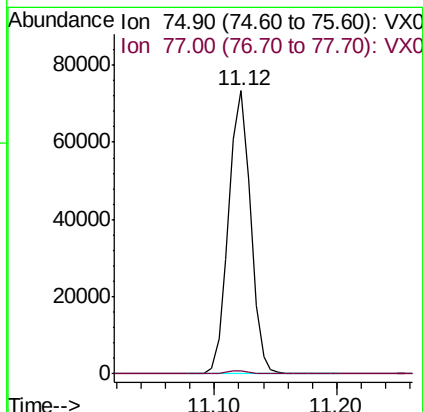
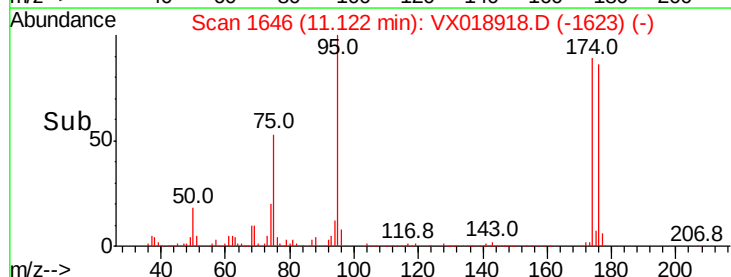
75 100

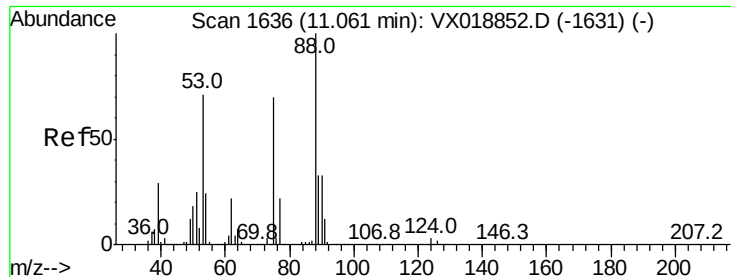
77 1.1 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.635 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

Instrument :

MSVOA_X

ClientSampled :

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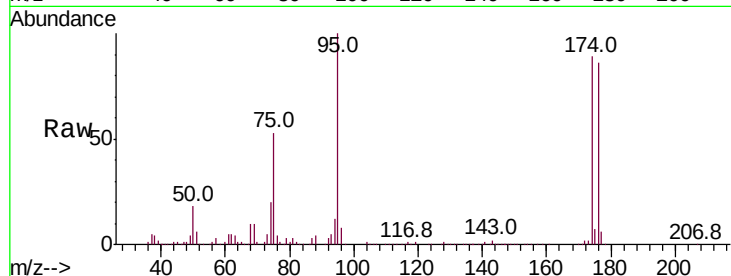
Tot Ion: 75 Resp: 91400

Ion Ratio Lower Upper

75 100

53 0.5 85.0 127.4#

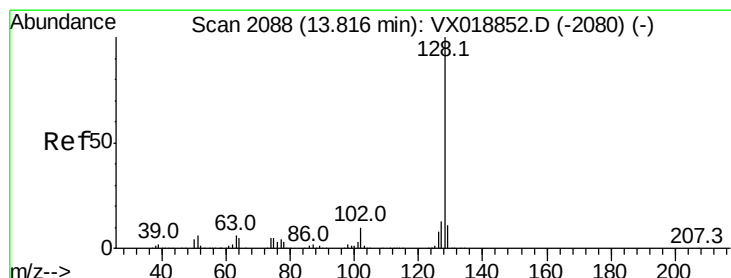
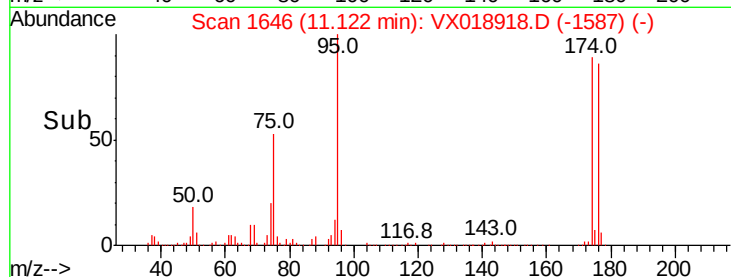
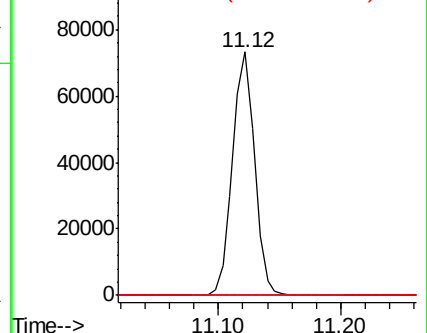
89 0.0 39.0 58.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#95

Naphthalene

Concen: 3.085 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX018918.D

Acq: 12 Oct 2020 20:54

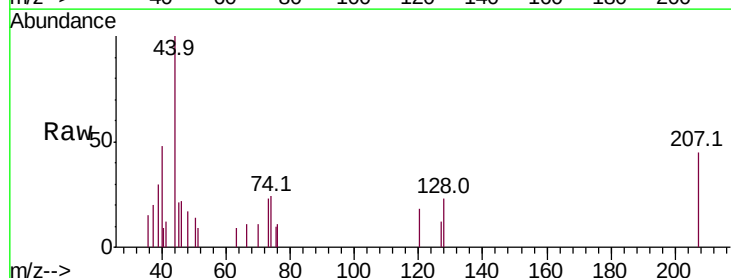
Tgt Ion:128 Resp: 123

Ion Ratio Lower Upper

128 100

127 20.3 10.1 15.1#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

